

**Abstract**

An apparatus is disclosed for supplying input signals to a computer. A  
5 sensor having the form of a sphere has a touch sensitive surface for  
generating position data for touch events. The sensor includes orientation  
sensors that determine rotation with respect to the earth's magnetic and  
gravitational fields. Orientation data may be combined with position data to  
10 interpret the orientation of touch events on the surface with respect to the  
computer's display. Cursor movement or text may be generated from touch  
events. Preferably the sphere has a roughened surface that generates sound  
when touched. Position data is generated by processing signals from  
microphones under the sphere's surface.

15 *(Figure 1)*

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